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TI ***Polyester*** multilayer ***containers***
IN Kuratsuji, Takatoshi; Hirose, Masahiko
PA Teijin Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
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PI JP 62073943 A2 870404 Showa
AI JP 85-212249 850927
DT Patent

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LA Japanese

IC ICM B32B027-36

ICS B32B027-20; B65D001-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 17

AB Multilayer ***gas*** - ***barrier*** ***containers***
useful for beer or soft drinks, are manufd. from biaxially oriented
polyester laminates having .gtoreq.1 layer(s) contg.
0.01-30% inert inorg. flakes of av. size (.hivin.d) .ltoreq.5 .mu.,
and an inner layer contg. no inorg. particles. A
transesterification mixt. of di-Me terephthalate 100, ethylene
glycol (I) 70, and MnOAc.4H2O 0.03 part was mixed with 0.05 part
kaolinite flakes (.hivin.d 0.65 .mu., as 10% slurry in I) at
170.degree., polycondensed in the presence of GeO2 and H3PO4, and
solid - ***state*** ***polymd*** . at 200.degree. to
give PET having intrinsic viscosity 0.75. A coextruded portion of
this PET between layers of PET contg. no kaolinite was stretch blow
molded into ***bottles*** which had CO2 permeability 13
mL-cm/cm2-s-cm Hg, vs. 16 for a ***bottle*** prepd. using
0.3-.mu. allophane microspheres instead of kaolinite.

ST ***gas*** ***barrier*** ***polyester*** ***bottle***
laminate; beer ***bottle*** ***gas*** ***barrier***
polyester ; carbonated ***beverage*** ***gas***
barrier ***polyester*** ; terephthalate copolymer
gas ***barrier*** ***container*** ; kaolinite filler
polyester ***gas*** ***barrier*** ; ***container***
beverage ***polyester*** laminate

IT Beer
(***containers*** for, inorg. flake filler-contg. multilayer
polyester , ***gas*** - ***barrier***)

IT Kaolinite-group minerals
Serpentine-group minerals
Smectite-group minerals

Mica -group minerals, uses and miscellaneous

RL: USES (Uses)

(flakes, multilayer ***bottles*** contg., ***gas*** -
barrier , for carbonated ***beverages***)

IT ***Polyesters*** , uses and miscellaneous

RL: USES (Uses)

(inorg. flake-filled, ***containers*** , multilayer
gas - ***barrier*** , for carbonated ***beverages***
)

IT ***Bottles***

(***beverage*** , gas-impermeable, multilayer,
polyester films with layers contg. inorg. flake fillers
as)

IT ***Beverages***

(carbonated, ***containers*** for, inorg. flake filler-contg.
multilayer ***polyester*** , ***gas*** - ***barrier***)

IT ***25038-59-9*** , ***Poly*** (***ethylene***
terephthalate), uses and miscellaneous
RL: USES (Uses)
(contg. inorg. flake fillers, multilayer ***gas*** -
barrier ***containers*** for carbonated
beverages)
IT 1318-00-9, ***Vermiculite*** ***1318-93-0*** ,
Montmorillonite , uses and miscellaneous 7727-43-7, Barium
sulfate
RL: USES (Uses)
(flakes, multilayer ***bottles*** contg., ***gas*** -
barrier , for carbonated ***beverages***)